SUPPLEMENTARY TUBE DATA

2 - G6

FOR

PRECISE MODEL 111/111M

PRECISE ELECTRONICS

DIVISION OF DESIGNATRONICS INCORPORATED

76 EAST SECOND STREET, MINEOLA, L.I., NEW YORK 11501

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
2AS2	2.5v .33a	GEBE(16)	52000	00004	06	-	-	1,2,5,6, 9,12	Diode	Em*
2AV2	2v .3a	GEBE(19)	00056	00040	00	-	-	1,4,5,9	Diode	Em
2BA2	2v .3a	GEBE(15)	00056	00040	00	-	-	1,4,5,9	Diode	Em
2BJ2	2.5v .3a	GEBE(19)	65000	00004	00	-	-	1,2,4,5, 6,8,9	P-Cap	Em
2CW4	2v .45a	Same as 6CW4 except for heater ratings								
2DS4	2.5v .45a	Same as 6DS4 except for heater ratings								
2DV4	2v .45a	Same as 6DV4 except for heater ratings								
2ER5	2v .6a	Same as 6ER5 except for heater ratings								
2FH5	2.5v .6a	Same as 6FH5 except for heater ratings								
2FS5	2.5v .6a	Same as 6FS5 except for heater ratings								
2GU5	2v .6a	Same as 6GU5 except for heater ratings								
2HA5	2.5v .45a	Same as 6HA5 except for heater ratings								
2HM5	2.5v .45a	Same as 6HM5 except for heater ratings								
2HQ5	2.5v .6a	Same as 6HQ5 except for heater ratings								
2HR8	2.5v .6a	Same as 4HR8 except for heater ratings								
3AT2	3v .22a	GEBE(17)	52000	00004	06	-	-	1,2,5,6, 9,12	Diode	Em
3BH2* GY501	3v .37a	GEBE(17) *Magnoval Base-Do not insert tube fully into socket	00056	00004	00	-	-	1,4,5,8,9	P-Cap	Em
3DZ4	3v .45a	Same as 6DZ4 except for heater ratings								
3EH7	3v .6a	Same as 6EH7 except for heater ratings								
3ER5	2.5v .45a	Same as 6ER5 except for heater ratings								
3FH5	3v .45a	Same as 6FH5 except for heater ratings								
3FS5	3v .45a	Same as 6FS5 except for heater ratings								
3GK6	3.2v .3a	Same as 6GK6 except for heater ratings								
3GU5	3v .45a	Same as 6GU5 except for heater ratings								
3HA5	3v .45a	Same as 6HA5 except for heater ratings								
3HM5	3v .45a	Same as 6HM5 except for heater ratings								
3HM6	3v .6a	Same as 6HM6 except for heater ratings								
3HQ5	3v .45a	Same as 6HQ5 except for heater ratings								
3HS8	3v .6a	Same as 6HS8 except for heater ratings								
3HT6	3v .6a	Same as 4HT6 except for heater ratings								
3JC6	3v .6a	Same as 6JC6 except for heater ratings								

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
3JD6	3v .6a	Same as 6JD6 except for heater ratings								
4EW6	4.3v .6a	Same as 6EW6 except for heater ratings								
4GJ7 XCF801	4.3v .6a	Same as 6GJ7 except for heater ratings								
4GM6	4.3v .6a	Same as 6GM6 except for heater ratings								
4GX7	4.3v .6a	Same as 6GX7 except for heater ratings								
4GZ5	4.3v .6a	Same as 6GZ5 except for heater ratings								
4HA5	4.3v .3a	Same as 6HA5 except for heater ratings								
4HA7	4.3v .6a	BGGG	54200	00000	16	.2v	1100	1,12	Triode 1	Gm*
		BGGG	50020	00014	06	.2v	2900		Triode 2	Gm*
		BEBD(15)	54200	00000	16	15	-		Triode 1	Em
		BEBD(12)	50020	00014	06	7	-		Triode 2	Em
4HC7	4.3v .6a	DGGG	50020	04010	06	1v	2500	1,7,10,12	Triode	Gm*
		EGGG	54200	00000	16	1v	1100		Triode	Gm*
		CEBD(9)	50020	04010	06	8	-		Triode	Em
		CEBD(19)	54200	00000	16	8	-		Triode	Em
4HG8	4.3v .6a	Same as 6HG8 except for heater ratings								
4HM5	4.3v .3a	Same as 6HM5 except for heater ratings								
4HM6	4.3v .45a	Same as 6HM6 except for heater ratings								
4HQ5	4.3v .3a	Same as 6HQ5 except for heater ratings								
4HR8	4.3v	EGGG	30256	40010	00	2v	1000	2,4,5,7	Pentode	Gm*
PF86	.3a	DEBB(33)	30256	40010	00	4	-		Pentode	Em
4HS8	4.3v .45a	Same as 6HS8 except for heater ratings								
4HT6	4.3v	BGGG	21256	04320	00	1.6v	3800	1,3,4,5	Pentode	Gm*
	.45a	BEBD(17)	21256	04320	00	4	-			Em
4JC6	4.3v .45a	Same as 6JC6 except for heater ratings								
4JD6	4.3v .45a	Same as 6JD6 except for heater ratings								
4JK6	3v .4a	Same as 5JK6 except for heater ratings								
4LJ8	4.3v .6a	Same as 6LJ8 except for heater ratings								
5BC3	5v	BEBD(6)	60500	00040	00	-	-	1,2,3,5,6,	Plate 1	Em*
5BC3A	3a	BEBD	60504	00000	00	-	-	8,9	Plate 2	Em*
5DJ4	5v	AEBB(5)	60400	05200	00	0	-	1,2,3,4,5,	Plate 1	Em*
	3a	AEBB(5)	60004	05000	00	0	-	6,7,8	Plate 2	Em*
5EU8	5v .6a	Same as 6EU8 except for heater ratings								
5EW6	5v .45a	Same as 6EW6 except for heater ratings								
5GH8	5v .7a	Same as 6GH8 except for heater ratings								
5GJ7 LCF801	5v .45a	Same as 6GJ7 except for heater ratings								
5GM6	5v .45a	Same as 6GM6 except for heater ratings								
5GX6	5v .6a	Same as 6GX6 except for heater ratings								
5GX7	5v .45a	Same as 6GX7 except for heater ratings								

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
5HA7	5v .45a	Same as 4HA7 except for heater ratings								
5HB7	5v .6a	Same as 6HB7 except for heater ratings								
5HC7	5v .45a	Same as 4HC7 except for heater ratings								
5HG8	5v .45a	Same as 6HG8 except for heater ratings								
5JK6	5v .45a	BEBD(8)	12560	40000	00	16	-	3,4	Pentode	Em
5KD8	5v .45a	Same as 6KD8 except for heater ratings								
5KE8	5v .45a	Same as 6KE8 except for heater ratings								
5LJ8	5v .45a	Same as 6LJ8 except for heater ratings								
5MB8	5v	CGGG	00056	43210	00	3v	3300	4,5	Pentode	Gm*
	.45a	CGGG	14256	00000	00	1v	4000		Triode	Gm*
		CEBD(15)	00056	43210	00	6	-		Pentode	Em
		BEBD(12)	14256	00000	00	10	-		Triode	Em
5U9	5v	DGGG	02105	64300	00	1v	2300	5,6	Pentode	Gm*
LCF201	.45a	CGGG	20005	60041	00	5v	3000		P-Cap	Gm*
		BEBD(22)	02105	64300	00	3	-		Pentode	Em
		BEBD(20)	20005	60041	00	28	-		P-Cap	Em
5V9	5v	Same as 6V9 except for heater ratings								
LCH200	.45a									
5X9	5v	DGGG	02105	64300	00	1v	3300	5,6	Pentode	Gm*
LCF200	.45a	EGGG	20005	60041	00	5v	1600		P-Cap	Gm*
		BEBD(23)	02105	64300	00	15	-		Pentode	Em
		CEBD(9)	20005	60041	00	10	-		P-Cap	Em
6AN6	6.3v	FEBB(19)	54000	26000	00	-	-	1,7	Diode	Em*
	.2a	FEBB(19)	50400	26000	00	-	-		Diode	Em*
		FEBB(19)	50040	26000	00	-	-		Diode	Em*
6AC10	6.3v	CGGG	50004	00210	36	22v	4100	1,10,12	Pentode	Gm
	1.4a	BEBC(5)	50004	00210	36	0	-		Pentode	Gm*
		FEBB(15)	54020	00000	06	0	-		Diode	Em*
6AD10	6.3v	EGGG	52100	34000	06	2.8v	730	1,12	Pentode	Gm*
	1.05a	BGGG	50000	00123	46	1.6v	3500		Pentode	Gm
		BEBE(17)	52100	34000	06	7	-		Pentode	Em
		BEBD(9)	50000	00123	46	15	-		Pentode	Em*
6AY3	6.3v	BEBD(6)	04065	00020	00	-	-	2,4,5,7		Em*
6AY3B	1.2a									
6AL11	6.3v	BGGG	50000	00123	46	3v	3000	1,12	Pentode 1	Gm
	.9a	CGGG	52120	43000	06	.4v	600		Pentode 2	Gm
		BEBD(12)	50000	00123	46	7	-		Pentode 1	Em*
		BEBD(30)	52120	43000	06	10	-		Pentode 2	Em*
6BA3	6.3v	BEBD(6)	04065	00020	00	-	-	2,4,5,7		Em*
	1.2a									
6BA11	6.3v	AGGG	50310	43200	06	0v	1500	1,12	Pentode 1	Gm*
	.45a	AGGG	54313	00200	06	0v	1500	1,12	Pentode 2	Gm*
		BGGG	50000	00012	46	1v	2800		Triode	Gm*
		BEBD(30)	50310	43200	06	20	-		Pentode 1	Em
		BEBD(30)	54313	00200	06	20	-		Pentode 2	Em
		BEBD(12)	50000	00012	46	8	-		Triode	Em
6BF11	6.3v	BGGG	50000	00123	46	4.5v	2800	1,12	Pentode 1	Gm
		BGGG	52103	04000	06	0v	1200		Pentode 2	Gm
	1.2a	BEBD(7)	50000	00123	46	6	-		Pentode 1	Em*
		BEBD(38)	52103	04000	06	10	-		Pentode 2	Em*
6BK4	6.3v	EGGG	26001	05004	00	0v	100	1,2,3,4,		Gm
	.2a	DEBE(25)	26001	05004	00	30	-	6,7,8		Em*

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6BK11	6.3v	EGGG	54200	00000	16	1v	800	1,12	Triode	Gm*
	.6a	EGGG	50004	21000	06	1v	800		Triode	Gm*
		EGGG	50020	00014	06	1v	900		Triode	Gm*
		CEBD(15)	54200	00000	16	15	-		Triode	Em
		CEBD(15)	50004	21000	06	15	-		Triode	Em
		CEBD(15)	50020	00014	06	14	-		Triode	Em
6BS3	6.3v	FEBB(16)	04045	00020	00	-	-	2,4,5,7	Diode	Em
	1.2a									
6C9	6.3v	BGGG	00056	21340	00	1v	2400	4,5	Tetrode 1	Gm*
	.4a	BGGG	13456	00002	00	1v	2400		Tetrode 2	Gm*
		BEBD(14)	00056	21340	00	4	-		Tetrode 1	Em
		BEBD(14)	13456	00002	00	5	-		Tetrode 2	Em
6CE3	6.3v	FEBB(16)	50040	02000	06	-	-	1,4,10,12	Diode	Em
	2.5a									
6CM4	6.3v	BGGG	41256	00000	00	1.5v	7700	All Pins	Triode	Gm*
EC86	.175a	BEBD(8)	41256	00000	00	8	-		Triode	Em
6CM5	6.3v	DGGG	05031	06204	00	20v	3200	2,3,7,8	Pentode	Gm
EL36	1.25a	BEBD(7)	05031	06204	00	5	-		Pentode	Em
6DC8	6.3v	BGGG	31265	40020	00	.9v	2600	4,5	Pentode	Gm*
EBF89	.3a	BEBD(15)	31265	40020	00	14	-		Pentode	Em
		AEBB(14)	00265	04000	00	0	-		Diode 1	Em
		AEBB(20)	00265	00400	00	0	-		Diode 2	Em
6DL4	6.3v	BGGG	12056	00400	00	1.5v	8000	1,3,4,5,	Triode	Gm*
EC88	.16a	BEBD(8)	12056	00400	00	10	-	6,7	Triode	Em
6DM4	6.3v	FEBB(16)	00204	05600	00	-	-	7,8	Diode	Em
	1.2a									
6DS4	6.3v	BGGG	04010	00205	06	1v	9000	10,12	Triode	Gm*
	.135a	BEBD(9)	04010	00205	06	6	-			Em
6DT4	6.3v	FEBB(16)	00204	05600	00	-	-	1,5,7,8	Diode	Em
	1.2a									
6DV4	6.3v	CGGG	44010	02005	06	4.8v	3600	1,2,4,6,	Triode	Gm*
	.135a	BEBD(23)	44010	02005	06	7	-	10,12	Triode	Em
6DW4	6.3v	BEBD(6)	04065	00020	00	-	-	2,4,5,7		Em
6DW4B	1.2a									
6DZ4	6.3v	BGGG	41562	10000	00	4.8v	3800	1,2,3,4,	Triode	Gm*
	.225a	BEBD(7)	41562	10000	00	9	-	6,7	Triode	Em
6DZ8	6.3v	EGGG	02156	40300	00	0v	800	4,5	Pentode	Gm*
	.9a	EGGG	10056	00240	00	1v	1000		Triode	Gm*
		CEBD(13)	02156	40300	00	11	-		Pentode	Em
		CEBD(13)	10056	00240	00	13	-		Triode	Em
6EA4	6.3v	EGGG	50002	10004	06	0	100	1,2,5,9,	Triode	Gm
	.2a	DEBE(20)	50002	10004	06	20	-	11,12	Triode	Em*
6EQ7	6.3v	BGGG	21265	34000	00	0v	2900	4,5	Pentode	Gm
	.3a	BEBD(15)	21265	34000	00	15	-		Pentode	Em
		EEBB(32)	00265	00400	00	0	-		Diode	Em*
6EV5	6.3v	BGGG	12564	32000	00	1v	4100	2,3,4,7	Tetrode	Gm*
	.2a	BEBD10	12564	32000	00	7	-			Em
6EV7	6.3v	BGGG	00065	41200	00	.6v	3100	4,5	Triode 1	Gm*
	.6a	BGGG	41265	00200	00	.6v	3100		Triode 2	Gm*
		BEBD(12)	00065	41200	00	11	-		Triode 1	Em
		BEBD(12)	41265	00200	00	11	-		Triode 2	Em
6EX6	6.3v	CGGG	05201	06304	00	15v	3500	2,7	P-Cap	Gm
	2.25a	BEBD(7)	05201	06304	00	32	-		P-Cap	Em*
6FA7	6.3v	BGGG	40065	21340	00	1v	1700	4,5	Tetrode	Gm
	.3a	BEBD(16)	40065	21340	00	12	-		Tetrode	Em*
		DEBB(30)	00465	20000	00	-	-		Diode	Em*
6FH5	6.3v	BGGG	21654	02000	00	0v	6300	1,3,4,7	Triode	Gm*
	.2a	BEBD(11)	21654	02000	00	7			Triode	Em
6FH8	6.3v	BEBD(29)	40065	13044	00	14	-	4,5	Tetrode	Em
	.45a	BEBD(20)	01465	00000	00	12	-		Triode	Em
		BEBD(25)	40065	13440	00	15	-		Tetrode	Em

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6FQ5A	6.3v	BGGG	21654	00000	00	1.2v	9200	1,3,4,7	Triode	Gm*
	.18	BEBD(7)	21654	00000	00	9	-		Triode	Em
6FV6	6.3v	BGGG	10654	32000	00	1v	4300	3,4	Tetrode	Gm*
	.2a	BEBD(10)	10654	32000	00	-	-		Tetrode	Em
6GB5*	6.3v	CGGG	11265	33204	00	23v	4100	1,2,3,4,		Gm
EL500*	1.38a	BEBD(6)	11265	33204	00	0	-	5,6,7,8		Em*
	* Magnoval Base-Do not insert tube fully into socket.									
6GC5	6.3v	CGGG	30165	12340	00	8.5v	4700	1,3,4,5,8		Gm
	1.2a	BEBD(7)	30165	12340	00	4	-			Em*
6GF7	6.3v	CGGG	20065	00410	00	.6v	1050	4,5	Triode 1	Gm
6GF7A	1.2a	CGGG	01265	40000	00	20	2700		Triode 2	Gm
		BEBD(25)	20065	00410	00	27	-		Triode 1	Em*
		BEBD(7)	01265	40000	00	4	-		Triode 2	Em*
6GH8	6.3v	BGGG	40056	00210	00	1.4v	3900	4,5	Triode	Gm*
	.45a	BGGG	01356	42000	00	1v	2600		Pentode	Gm*
		BEBD(11)	40056	00210	00	8	-		Triode	Em
		BEBD(19)	01356	42000	00	7	-		Pentode	Em
6GJ5	6.3v	BGGG	31256	00004	00	35v	2000	1,2,4,5,	P-Cap	Gm
	1.2a	CEBD(5)	31256	00004	00	8	-	6,7	P-Cap	Em*
6GJ7	6.3v	BGGG	20065	00410	00	3.8v	6900	1,3,4,5	Triode	Gm*
ECF801	.41a	BGGG	21265	43000	00	1v	5700		Pentode	Gm*
		BEBD(8)	20065	00410	00	6	-		Triode	Em
		BEBD(22)	21265	43000	00	3	-		Pentode	Em
6GK6	6.3v	BGGG	21265	04320	00	1.8v	6100	3,4,5,9	Pentode	Gm
	.76a	BEBD(8)	21265	04320	00	14	-		Pentode	Em*
6GM6	6.3v	BGGG	12654	32000	00	1v	3900	3,4	Pentode	Gm*
	.4a	BEBD(17)	12654	32000	00	6	-		Pentode	Em
6GT5	6.3v	CGGG	31265	13040	00	22.5v	2900	1,2,4,5,		Gm*
6GT5A	1.2a	BEBD(6)	31265	13040	00	-	-	6,7		Em*
6GU5	6.3v	BGGG	12564	32000	00	0v	9500	2,3,4,7	Pentode	Gm
	.22a	BEBD(13)	12564	32000	00	10	-		Pentode	Em
6GU7	6.3v	BGGG	41265	00200	00	1.4v	3100	4,5	Triode 1	Gm
	.6a	BGGG	00265	41200	00	1.4v	3100		Triode 2	Gm
		BEBD(10)	41265	00200	00	8	-		Triode 1	Em*
		BEBD(10)	00265	41200	00	8	-		Triode 2	Em*
6GV7	6.3v	DGGG	03456	01200	00	1.5v	2100	4,5,6,7	Pentode	Gm*
	.35a	CGGG	40056	00210	00	3v	4200		Triode	Gm*
		BEBD(31)	03456	01200	00	0	-		Pentode	Em
		BEBD(10)	40056	00210	00	6	-		Triode	Em
6GV8	6.3v	BGGG	41265	00000	00	.6v	4650	4,5	Triode	Gm
ECL85	.9a	BGGG	00065	43210	00	8.5v	5200		Pentode	Gm
		BEBD(13)	41265	00000	00	9	-		Triode	Em*
		BEBD(6)	00065	43210	00	5	-		Pentode	Em*
6GW6	6.3v	BGGG	05031	06204	00	15v	3900	2,7	Pentode	Gm
	1.2a	BEBD	05031	06204	00	6	-			Em*
6GX6	6.3v	BGGG	12654	32000	00	1v	1700	3,4	Pentode	Gm*
	.45a	BEBD(28)	12654	32000	00	10	-		Pentode	Em
6GX7	6.3v	DGGG	21056	43000	00	1v	2200	1,3,4,5	Pentode	Gm*
	.4a	CGGG	20056	00410	00	1v	4300		Triode	Gm*
		CEBD(17)	21056	43000	00	5	-		Pentode	Em
		BEBD(15)	20056	00410	00	5	-		Triode	Em
6GY5	6.3v	BGGG	50321	00400	06	20v	2600	1,3,4,5,7	Pentode	Gm
	1.5a	BEBD(6)	50321	00400	06	-	-	9,10,11,12	Pentode	Em*
6GY6	6.3v	BGGG	12654	32000	00	1v	1100	3,4	Pentode	Gm*
	.45a	BEBD(33)	12654	32000	00	9	-		Pentode	Em
6GZ5	6.3v	CGGG	21560	34000	00	1v	4500	2,3,4,5	Pentode	Gm
	.38a	CEBD(8)	21560	34000	00	8	-		Pentode	Em*
6HA5	6.3v	BGGG	12564	02000	00	1v	9000	2,3,4,7	Triode	Gm*
	.18a	BEBD(10)	12564	02000	00	5	-		Triode	Em

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6HB7	6.3v	DGGG	21056	43000	00	1v	3100	1,3,4,5	Pentode	Gm*
	.45a	CGGG	20056	00410	00	1.5v	4800		Triode	Gm*
		CEBD(15)	21056	43000	00	7	-		Pentode	Em
		BEBD(7)	20056	00410	00	5	-		Triode	Em
6HC8	6.3v	DGGG	02156	43000	00	4v	2700	4,5	Pentode	Gm*
	1.2a	EGGG	10056	00240	00	1v	1500		Triode	Gm*
		BEBD(11)	02156	43000	00	5	-		Pentode	Em
		BEBD(8)	10056	00240	00	20	-		Triode	Em
6HE7	6.3v	Same as 12HE7 except for heater ratings								
	2.7a									
6HF8	6.3v	BGGG	21465	00000	00	1v	2600	4,5	Triode	Gm
	.75a	AGGG	00065	21340	00	3.4v	2900		Pentode	Gm
		BEBD(12)	21465	00000	00	15	-		Triode	Em*
		BEBD(10)	00065	21340	00	6	-		Pentode	Em*
6HG5	6.3v	BGGG	12654	32000	00	3v	2100	1,3,4,7	Pentode	Gm
	.45a	BEBD(15)	12654	32000	00	7	-		Pentode	Em*
6HG8	6.3v	BGGG	21056	00430	00	1v	4800	1,3,4,5	Pentode	Gm*
	.34a	BGGG	20056	14000	00	3v	3800		Triode	Gm*
		BEBD(23)	21056	00430	00	5	-		Pentode	Em
		BEBD(10)	20056	14000	00	6	-		Triode	Em
6HJ5	6.3v	DGGG	52103	04000	06	30v	4300	1,3,4,5,9,	Pentode	Gm*
	2.25a	BEBD(7)	52103	04000	06	0	-	10,11,12	Pentode	Em
6HL8	6.3v	CGGG	01356	42200	00	1v	2800	4,5	Pentode	Gm*
	.6a	CGGG	40056	02210	00	1v	4100		Triode	Gm*
		DEBD(10)	01356	42200	00	20	-		Pentode	Em
		BEBD(10)	40056	02210	00	10	-		Triode	Em
6HM5	6.3v	BGGG	12564	00000	00	1v	12000	2,3,4,7	Triode	Gm*
	.185a	BEBD8	12564	00000	00	7	-		Triode	Em
6HM6	6.3v	BGGG	21256	04320	00	1.6v	3800	1,3,4,5	Pentode	Gm*
	.25a	BEBD(16)	21256	04320	00	4	-			Em
6HQ5	6.3v	BGGG	12564	02000	00	1v	9000	2,3,4,7	Triode	Gm*
	.2a	BEBD(10)	12564	02000	00	5	-		Triode	Em
6HR6	6.3v	BGGG	12654	32000	00	1v	3800	3,4	Pentode	Gm*
	.45a	BEBD(12)	12654	32000	00	14	-		Pentode	Em
6HS6	6.3v	BGGG	12654	32000	00	1v	3800	3,4	Pentode	Gm*
	.45a	BEBD(12)	12654	32000	00	14	-		Pentode	Em
6HT6	6.3v	Same as 4HT6 except for heater ratings								
	.3a									
6HU6	6.3v	EGGG	10256	00040	00	1v	1100	2,4,5,6,8	Triode	Em*
	.3a	EEBD	00256	43010	00		-		Eye open	-
		EEGD	00256	43010	00		-		Eye closed	-
6HZ6	6.3v	BGGG	12654	32000	00	1.2v	900	3,4	Pentode	Gm*
	.45a	BEBD(35)	12654	32000	00	8	-		Pentode	Em
6J9	6.3v	CGGG	41256	00000	00	1v	4000	4,5	Triode	Gm*
	.45a	CGGG	00056	40012	00	1v	4000		Triode	Gm*
		CGGG	00056	01402	00	1v	4000		Triode	Gm*
		BEBD(14)	41256	00000	00	9	-		Triode	Em
		BEBD(14)	00056	40012	00	9	-		Triode	Em
		BEBD(14)	00056	01402	00	9	-		Triode	Em
6J10	6.3v	BGGG	53200	00040	16	3v	3800	1,12	Pentode 1	Gm
	.95a	CGGG	50042	31200	06	2v	750		Pentode 2	Gm
		BEBD(12)	53200	00040	16	7	-		Pentode 1	Em*
		DEAE(46)	50042	31200	06	7	-		Pentode 2	Em*
6JB6	6.3v	CGGG	31265	13204	00	20v	3300	1,2,4,5,	P-Cap	Gm
6JB6A	1.2a	BEBD(6)	31265	13204	00	0	-	6,7	P-Cap	Em*
6JC6	6.3v	BGGG	21265	04320	00	1v	6700	4,5	Pentode	Gm*
	.3a	BEBD(18)	21265	04320	00	3	-		Pentode	Em
6JD6	6.3v	BGGG	21265	04320	00	1v	6700	4,5	Pentode	Gm*
	.3a	BEBD(18)	21265	04320	00	3	-		Pentode	Em
6JE6	6.3v	CGGG	31265	13204	00	30v	4100	1,2,4,5,	P-Cap	Gm
6JE6A	2.5a	BEBD(6)	31265	13204	00	0	-	6,7	P-Cap	Em*

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
6JF6	6.3v	CGGG	31256	03004	00	25v	4000	1,2,4,5,	P-Cap	Gm
	1.6a	BEBD(6)	31256	03004	00	0	-	6,7	P-Cap	Em*
6JH6	6.3v	CGGG	12564	32000	00	3v	800	3,4	Pentode	Gm
	.3a	BEBD(24)	12564	32000	00	4	-		Pentode	Em
6JK8	6.3v	EGGG	41256	00000	00	1.5v	7500	4,5	Triode	Gm*
	.4a	BGGG	00056	41200	00	1.5v	6000		Triode	Gm*
		BEBD(9)	41256	00000	00	7	-		Triode	Em
		BEBD(9)	00056	41200	00	9	-		Triode	Em
6JM6	6.3v	CGGG	52301	00004	06	20v	2300	1,4,10,	P-Cap	Gm
	1.2a	BEBD(7)	52301	00004	06	14	-	12	P-Cap	Em*
6JN8	6.3v	Same as 19JN8 except for heater ratings								
	.45a									
6JS6	6.3v	CGGG	52301	00004	06	40v	2700	1,3,5,9,	P-Cap	Gm
	2.25a	BEBD(7)	52301	00004	06	7	-	10,11,12	P-Cap	Em*
6JT6	6.3v	CGGG	31265	23040	00	20v	2300	1,4,5,7		Gm
6JT6A	1.2a	BEBD(6)	31265	23040	00	0	-			Em*
6JT8	6.3v	BGGG	21456	00000	00	.6v	2500	4,5	Triode	Gm
	.725a	BGGG	00056	21340	00	3v	4300		Pentode	Gm
		BEBD(17)	21456	00000	00	9	-		Triode	Em*
		BEBD(8)	00056	21340	00	4	-		Pentode	Em*
6JU8	6.3v	FEBB(15)	42056	00000	00		-		Diode 1	Em
	.6a	FEBB(15)	04256	00000	00		-	2,4,5,8	Diode 2	Em
		FEBB(15)	00056	04200	00		-		Diode 3	Em
		FEBB(15)	00056	00420	00		-		Diode 4	Em
6JV8	6.3v	BGGG	21465	00000	00	1.4v	2100	4,5	Triode	Gm*
	.6a	BGGG	00065	21340	00	2v	3800		Pentode	Gm*
		BEBD(12)	21465	00000	00	12	-		Triode	Em
		BEBD(10)	00065	21340	00		-		Pentode	Em
6JZ8	6.3v	CGGG	50040	10320	06	9v	2800	1,6,7,12	Pentode	Gm
	1.2a	DGGG	54000	00001	26	.5v	2800		Triode	Gm*
		BEBD(7)	50040	10320	06	13	-		Pentode	Em*
		BEBD(10)	54000	00001	26	17	-		Triode	Em
6KA8	6.3v	BGGG	41265	00000	00	1.2v	2800	4,5	Triode	Gm*
	.6a	BGGG	00265	12340	00	.6v	1900		Pentode	Gm*
		BEBD(14)	41265	00000	00	9	-		Triode	Em
		BEBD(32)	00265	12340	00	6	-		Pentode	Em
6KD8	6.3v	DGGG	01356	42000	00	1v	2000	4,5	Pentode	Gm*
	.4a	CGGG	40056	00210	00	1v	4000		Triode	Gm*
		CEBD(14)	01356	42000	00	10	-		Pentode	Em
		CEBD(8)	40056	00210	00	6	-		Triode	Em
6KE8	6.3v	BGGG	40065	00210	00	1v	4000	4,5	Triode	Gm*
	.4a	BGGG	01365	42000	00	1v	3900		Pentode	Gm*
		BEBD(11)	40065	00210	00	8	-		Triode	Em
		BEBD(19)	01365	42000	00	5	-		Pentode	Em
6KL8	6.3v	EGGG	01256	34000	00	0v	1700	4,5	Pentode	Gm*
	.3a	BEBD(17)	01256	34000	00	0	-		Pentode	Em
		FEBB(26)	00256	00400	00	0	-		Diode	Em
6KM6	6.3v	CGGG	31256	00004	00	25v	3700	1,2,4,5,	P-Cap	Gm
	1.6a	BEBD(7)	31256	00004	00	15	-	6,7	P-Cap	Em*
6KM8	6.3v	BGGG	44065	21340	00	.4v	2200	4,5	Tetrode	Gm*
	.3a	BEBD(15)	44065	21340	00	12	-		Tetrode	Em
		EEBA(50)	00465	20000	00	0	-		Diode	Em
6KR8	6.3v	EGGG	00056	21340	00	6v	1000	4,5	Pentode	Gm*
	.75a	CGGG	21456	00000	00	2v	4700		Triode	Gm*
		BEBD(11)	00056	21340	00	10	-		Pentode	Em
		BEBD(10)	21456	00000	00	12	-		Triode	Em
6KT8	6.3v	BGGG	21465	00000	00	.6v	2900	4,5	Triode	Gm*
	.6a	BGGG	00065	21340	00	1v	4300		Pentode	Gm*
		BEBD(15)	21465	00000	00	10	-		Triode	Em
		BEBD(19)	00065	21340	00	4	-		Pentode	Em

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
6KV8	6.3v	BGGG	31465	00000	00	.4v	2700	4,5	Triode	Gm*
	.775a	BGGG	00065	21340	00	2.4v	12700		Pentode	Gm*
		BEBD(17)	31465	00000	00	9	-		Triode	Em
		BEBD(9)	00065	00000	00	4	-		Pentode	Em
6KY8	6.3v	CGGG	20065	00410	00	1.3v	2400	4,5	Triode	Gm
6KY8A	1.1a	CGGG	01265	43000	00	20v	1800		Pentode	Gm
		BEBD(18)	20065	00410	00	13	-		Triode	Em*
		BEBD(7)	01265	43000	00	7	-		Pentode	Em*
6KZ8	6.3v	BGGG	01256	43000	00	.6v	2800	4,5	Pentode	Gm*
	.45a	BGGG	40056	00210	00	1v	3300		Triode	Gm*
		BEBD(18)	01256	43000	00	7	-		Pentode	Em
		BEBD(12)	40056	00210	00	6	-		Triode	Em
6LB8	6.3v	CGGG	00056	21340	00	2.5v	4700	4,5	Pentode	Gm*
	.725a	CGGG	21456	00000	00	1v	3700		Triode	Gm*
		BEBD(6)	00056	21340	00	10	-		Pentode	Em
		BEBD(9)	21456	00000	00	15	-		Triode	Em
6LC8	6.3v	BGGG	41265	00000	00	1.2v	2700	4,5	Triode	Gm
	.6a	BGGG	00265	12340	00	.6v	2600		Pentode	Gm
		BEBD(12)	41265	00000	00	13	-		Triode	Em*
		BEBD(30)	00265	12340	00	5	-		Pentode	Em*
6LE8	6.3v	BEBD(17)	42256	00310	00	7	-	4,5	Pentode	Em*
	.7a	BEBD(15)	00256	04310	00	7	-		Pentode	Em*
6LF8	6.3v	BGGG	21465	00000	00	.6v	2000	4,5	Triode	Gm
	.6a	BGGG	00065	21340	00	4v	1900		Pentode	Gm
		BEBD(15)	21465	00410	00	12	-		Triode	Em*
		BEBD(11)	00065	21340	00	8	-		Pentode	Em*
6LJ8	6.3v	DGGG	00056	43210	00	.5v	3200	3,4,5,8	Pentode	Gm*
	.4a	CGGG	14256	00000	00	1.5v	4200		Triode	Gm*
		CEBD(13)	00056	43210	00	5	-		Triode	Em
		BEBD(26)	14256	00000	00	25	-		Triode	Em
6LN8	6.3v	CGGG	21356	42220	00	2v	2000	4,5	Pentode	Gm*
	.45a	CGGG	42256	22210	00	4v	3500		Triode	Gm*
		BEBD(15)	21356	42220	00	14	-		Pentode	Em
		BEBD(9)	42256	22210	00	9	-		Triode	Em
6LQ8	6.3v	EGGG	00056	21340	00	4v	3400	4,5	Pentode	Gm*
	.775a	BGGG	21456	00000	00	1v	6400		Triode	Gm*
		BEBD(13)	00056	21340	00	0	-		Pentode	Em
		BEBD(10)	21456	00000	00	8	-		Triode	Em
6LU8	6.3v	CGGG	50040	10320	06	10v	3600	1,6,7,12	Pentode	Gm
	1.5a	EGGG	54000	00001	26	4v	1500		Triode	Gm
		BEBD(7)	50040	10320	06	0	--		Pentode	Em*
		BEBD(17)	54000	00001	26	5	-		Triode	Em*
6LX8	6.3v	CGGG	01356	42000	00	1v	2500	4,5	Pentode	Gm*
LCF802	.43a	DGGG	40056	00210	00	1v	1800		Triode	Gm*
		CEBD(12)	01356	42000	00	13	-		Pentode	Em
		BEBD(15)	40056	00210	00	11	-		Triode	Em
6T9	6.3v	BGGG	54012	00000	06	1v	1800	1,12	Triode	Gm
	.93a	BGGG	50000	00123	46	2v	4400		Pentode	Gm
		BEBD(15)	54012	00000	06	7	-		Triode	Em*
		BEBD(15)	50000	00123	46	7	-		Pentode	Em*
6T10	6.3v	CGGG	50000	00123	46	7v	2200	1,12	Pentode 2	Gm
	.95a	CGGG	52102	34000	06	0v	750		Pentode 1	Gm
		BEBD(10)	50000	00123	46	10	-		Pentode 2	Em*
		BEBD(43)	52102	34000	06	10	-		Pentode 1	Em*
6U9	6.3v	Same as 5U9 except for heater ratings								
ECF201	.41a									
6U10	6.3v	CGGG	54200	00000	16	.6v	2300	1,12	Triode 3	Gm*
	.6a	CGGG	50004	21000	06	.6v	800		Triode 2	Gm*
		CGGG	50020	10014	06	.6v	2300		Triode 1	Gm*
		BEBD(12)	50020	10014	06	12	-		Triode 1	Em
		BEBD(16)	50004	21000	06	15	-		Triode 2	Em
		BEBD(12)	54200	00000	16	12	-		Triode 3	Em

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
6V9	6.3v .435a	EGGG	24105	64000	00	.6v	800	5,6	Heptode	Gm*
		CGGG	00005	60124	00	.6v	4000		P-Cap	Gm*
		CEBD(21)	24105	64000	00	25	-		Heptode	Em
		BEBD(15)	00005	60124	00	9	-		P-Cap	Em
6X9 ECF200	6.3v .41a	Same as 5X9 except for heater ratings								
6Y9 EFL200	6.3v .8a	DGGG	00005	62134	00	.2v	3300	5,6	P-Cap	Gm*
		DGGG	12345	60000	00	2v	2400		Pentode	Gm*
		BEBD(8)	00005	62134	00	5	-		P-Cap	Em
		BEBD(15)	12345	60000	00	5	-		Pentode	Em
7GV7 FCF805	7.5v .3a	Same as 6GV7 except for heater ratings								
7HG8	7.5v .3a	Same as 6HG8 except for heater ratings								
8B10	7.5v .4a	Same as 6B10 except for heater ratings								
8CX8	7.5v .5a	Same as 6CX8 except for heater ratings								
8DX8	7.5v .3a	Same as 6DX8 except for heater ratings								
8FQ7	7.5v .45a	Same as 6FQ7 except for heater ratings								
8GJ7 PCF801	7.5v .3a	Same as 6GJ7 except for heater ratings								
8GX7	7.5v .3a	Same as 6GX7 except for heater ratings								
8HG8	7.5v .3a	Same as 6HG8 except for heater ratings								
8JK8	7.5v .3a	Same as 6JK8 except for heater ratings								
8JT8	7.5v .6a	Same as 6JT8 except for heater ratings								
8JV8	7.5v .4a	Same as 6JV8 except for heater ratings								
8KA8	7.5v .4a	Same as 6KA8 except for heater ratings								
8LC8	7.5v .4a	Same as 6LC8 except for heater ratings								
8LE8	7.5v .6a	Same as 6LE8 except for heater ratings								
8U9 PCF201	7.5v .3a	Same as 5U9 except for heater ratings								
8X9 PCF200	7.5v .3a	Same as 5X9 except for heater ratings								
9CG8	10v .3a	Same as 6CG8 except for heater ratings								
9EA8	10v .3a	Same as 6EA8 except for heater ratings								
9DZ8	10v .6a	Same as 6DZ8 except for heater ratings								
9GV8 XCL85	10v .6a	Same as 6GV8 except for heater ratings								
9KC6	10v .4a	DGGG	21056	04030	00	1v	1500	4,5	Pentode	Gm*
		BEBD(32)	21056	04030	00	0	-		Pentode	Em
9KZ8	10v .3a	Same as 6KZ8 except for heater ratings								
9V9 PCH200	10v .3a	Same as 6V9 except for heater ratings								
10AL11	10v .6a	Same as 6AL11 except for heater ratings								
10CW5	10v .45a	Same as 6CW5 except for heater ratings								

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
10DX8	10v .45a	Same as 6DX8 except for heater ratings								
10EM7	10v .6a	Same as 6EM7 except for heater ratings								
10GF7	10v	Same as 6GF7 except for heater ratings								
10GF7A	.6a	Same as 6GF7A except for heater ratings								
10GN8	10v .45a	Same as 6GN8 except for heater ratings								
10HF8	10v .45a	Same as 6HF8 except for heater ratings								
10JA8	10v	DGGG	00056	21340	00	2v	2800	4,5	Pentode	Gm*
	.45a	DGGG	21456	00000	00	2v	3400		Triode	Gm*
		BEBD(11)	00056	21340	00	5	-		Pentode	Em
		BEBD(11)	21456	00000	00	12	-		Triode	Em
10JT8	10v .45a	Same as 6JT8 except for heater ratings								
10JY8	10v	BGGG	00056	21340	00	3v	2800	4,5	Pentode	Gm*
	.45a	BGGG	21456	00000	00	1v	8000		Triode	Gm*
		BEBD(9)	00056	21340	00	8	-		Pentode	Em
		BEBD(9)	21456	00000	00	8	-		Triode	Em
10KR8	10v .45a	Same as 6KR8 except for heater ratings								
10LB8	10v .45a	Same as 6LB8 except for heater ratings								
10LE8	10v .45a	Same as 6LE8 except for heater ratings								
11BT11	10v	AGGG	54000	00203	16	0v	12000	1,12	Pentode	Gm*
	.6a	CGGG	50001	24000	06	1v	3300		Triode	Gm*
		CGGG	50120	00040	06	2.6v	4000		Triode	Gm*
		BEBD(8)	54000	00203	16	4	-		Pentode	Em
		BEBD(17)	50001	24000	06	10	-		Triode	Em
		BEBD(10	50120	00040	06	10	-		Triode	Em
11JE8	10v .45a	Same as 6JE8 except for heater ratings								
11KV8	10v .45a	Same as 6KV8 except for heater ratings								
11LQ8	10v .45a	Same as 6LQ8 except for heater ratings								
11Y9	10v	Same as 6Y9 except for heater ratings								
LFL200	.45a									
12AE10	12.6v	CGGG	50000	00123	46	7v	2000	1,12	Pentode	Gm
	.45a	EGGG	52102	34000	06	1.6v	700		Pentode	Gm
		BEBD(9)	50000	00123	46	9	-		Pentode	Em*
		BEBD(31)	52102	34000	06	7	-		Pentode	Em*
12AJ7	12.6v	EGGG	31256	43000	00	2v	1000	4,5	Pentode	Gm
HCH81	.15a	EGGG	00256	00410	00	2v	2200		Triode	Gm*
		BEBD(10)	31256	43000	00	32	-		Pentode	Em
		BEBD(10)	00256	00410	00	13	-		Triode	Em
12AL11	12.6v .45a	Same as 6AL11 except for heater ratings								
12AU8	12.6v .3a	Same as 6AU8 except for heater ratings								
12AX3	12.6v .6a	Same as 6AX3 except for heater ratings								
12AY3	12.6v	Same as 6AY3 except for heater ratings								
12AY3A	.6a	Same as 6AY3A except for heater ratings								
12BE3	12.6v .6a	Same as 6BE3 except for heater ratings								
12BS3	12.6v .6a	Same as 6BS3 except for heater ratings								
12CM5	12.6v	Same as 6CM5 except for heater ratings								
XL36	.6a									

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
12DK6	12.6v .15a	Same as 4DK6 except for heater ratings								
12DM4	12.6v .6a	Same as 6DM4 except for heater ratings								
12DZ8	12.6v .45a	Same as 6DZ8 except for heater ratings								
12EQ7	12.6v .15a	Same as 6EQ7 except for heater ratings								
12FV7	12.6v .9a	BGGG	41265	00000	00	5v	5100	4,5,9	Triode 1	Gm
		BGGG	00065	41200	00	5	5100		Triode 2	Gm
		BEBD(8)	41265	00000	00	6	-		Triode 1	Em*
		BEBD(8)	00065	41200	00	6	-		Triode 2	Em*
12GE5	12.6v .6a	Same as 6GE5 except for heater ratings								
12GN7	12.6v .3a	BGGG	21265	04304	00	1v	6500	3,4,5,6,9	Pentode	Gm*
		BEBD(13)	21265	04304	00	0	-		Pentode	Em
12GJ5	12.6v .6a	Same as 6GJ5 except for heater ratings								
12GT5	12.6v	Same as 6GT5 except for heater ratings								
12GT5A	.6a	Same as 6GT5A except for heater ratings								
12GW6	12.6v .6a	Same as 6GW6 except for heater ratings								
12HE7	12.6v 1.4a	CGGG	50004	00210	36	22v	4100	1,10,12	Pentode	Gm
		BEBC(5)	50004	00210	36	0	-		Pentode	Em*
		FEBB(15)	54020	00000	06	0	-		Diode	Em*
12HG7	12.6v 1.3a	BGGG	21265	04304	00	0v	7700	3,4,5,6,9	Pentode	Gm*
		BEBD(15)	21265	04304	00	0	-		Pentode	Em
12JB6	12.6v	Same as 6JB6 except for heater ratings								
12JB6A	.6a	Same as 6JB6A except for heater ratings								
12JN8	12.6v .225a	Same as 19JN8 except for heater ratings								
12JT6	12.6v	Same as 6JT6 except for heater ratings								
12JT6A	.6a	Same as 6JT6A except for heater ratings								
12KL8	12.6v .15a	Same as 6KL8 except for heater ratings								
13CW4	12.6v .06a	Same as 6CW4 except for heater ratings								
13EM7	12.6v .45a	Same as 6EM7 except for heater ratings								
13FD7	12.6v .45a	Same as 6FD7 except for heater ratings								
13GB5*	12.6v	Same as 6GB5 except for heater ratings								
XL500	.6a	*Magnoval Base-Do not insert tube fully into socket.								
13GF7	12.6v	Same as 6GF7 except for heater ratings								
13GF7A	.45a	Same as 6GF7A except for heater ratings								
13J10	12.6v .45a	Same as 6J10 except for heater ratings								
14BL11	12.6v .45a	AGGG	54000	00203	16	0v	12000	1,12	Pentode	Gm*
		CGGG	50001	24000	06	1v	3000		Triode	Gm*
		CGGG	50120	00040	06	2.6v	3600		Triode	Gm*
		BEBD(9)	54000	00203	16	6	-		Pentode	Em
		BEBD(17)	50001	24000	06	6	-		Triode	Em
		BEBD(10)	50120	00040	06	9	-		Triode	Em
14GT8	12.6v .14a	EGGG	00065	02140	00	0v	50		Triode 1	Gm
		DEBE	00065	02140	00	50	-		Triode 2	Em*
		BEAA(45)	04265	00000	00	0	-		Diode 1	Em
		BEAA(45)	20065	40000	00	0	-		Diode 2	Em
15AF11	12.6v .4a	Same as 6AF11 except for heater ratings								
15BD11	12.6v .4a	Same as 6BD11 except for heater ratings								

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
15CW5	12.6v .3a	Same as 6CW5 except for heater ratings								
15DQ8	12.6v	DGGG	00056	42130	00	2v	3600	4,5	Pentode	Gm*
PCL84	.3a	DGGG	14256	00000	00	1v	2800		Triode	Gm*
		BEBD(13)	00056	42130	00	6	-		Pentode	Em
		BEBD(12)	14256	00000	00	12	-		Triode	Em
15EW7	12.6v .45a	Same as 6EW7 except for heater ratings								
15HB6	12.6v .3a	Same as 6HB6 except for heater ratings								
15KY8	12.6v	Same as 6KY8 except for heater ratings								
15KY8A	.45a	Same as 6KY8A except for heater ratings								
15LE8	12.6v .3a	Same as 6LE8 except for heater ratings								
16GK6	12.6v .3a	Same as 6GK6 except for heater ratings								
16GY5	12.6v .6a	Same as 6GY5 except for heater ratings								
16Y9	12.6v	Same as 6Y9 except for heater ratings								
PFL200	.3a									
17AX3	20v .45a	Same as 6AX3 except for heater ratings								
17AY3	20v	Same as 6AY3 except for heater ratings								
17AY3A	.45a	Same as 6AY3A except for heater ratings								
17BE3	20v .45a	Same as 6BE3 except for heater ratings								
17BF11	20v .45a	Same as 6BF11 except for heater ratings								
17BS3	20v .45a	Same as 6BS3 except for heater ratings								
17BZ3	20v .45a	BEBD(6)	50040	02004	06	0	-	1,4,10,12	Diode	Em
17C9	20v .15a	Same as 6C9 except for heater ratings								
17DM4	20v .45a	Same as 6DM4 except for heater ratings								
17GE5	20v .45a	Same as 6GE5 except for heater ratings								
17GJ5	20v .45a	Same as 6GJ5 except for heater ratings								
17GT5	20v	Same as 6GT5 except for heater ratings								
17GT5A	.45a	Same as 6GT5A except for heater ratings								
17GV5	20v .45a	Same as 6GV5 except for heater ratings								
17GW6	20v .45a	Same as 6GW6 except for heater ratings								
17HC8	20v .45a	Same as 6HC8 except for heater ratings								
17JB6	20v	Same as 6JB6 except for heater ratings								
17JB6A	.45a	Same as 6JB6A except for heater ratings								
17JK8	20v .15a	Same as 6JK8 except for heater ratings								
17JM6	20v .45a	Same as 6JM6 except for heater ratings								
17JN6	20v	BGGG	52320	04002	16	16v	3800	1,4,10,12	Pentode	Gm
	.4a	BEBD(5)	52320	04002	16	3	-		Pentode	Em*
17JT6	20v	Same as 6JT6 except for heater ratings								
17JT6A	.45a	Same as 6JT6A except for heater ratings								
17JZ8	20v .45a	Same as 6JZ8 except for heater ratings								
17W6	20v .45a	Same as 6W6 except for heater ratings								

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
17X10	20v .45a	DGGG	53200	00040	16	8v	3200	1,12	Pentode	Gm
		EGGG	50042	31200	06	0v	1200		Pentode	Gm*
		BEBD(7)	53200	00040	16	5	-		Pentode	Em*
		BEBD(41)	50042	31200	06	5	-		Pentode	Em
18DZ8	20v .3a	Same as 6DZ8 except for heater ratings								
18GB5* LL500	20v .45a	Same as 6GB5 except for heater ratings *Magnoval Base-Do not insert tube fully into socket.								
18GD6A	20v 1.1a	BGGG	12654	32000	00	6v	2400	4,5	Pentode	Gm*
		BEBD(16)	12654	32000	00	10	-		Pentode	Em
19AQ5	20v .15a	Same as 6AQ5 except for heater ratings								
19CL8A	20v .15a	Same as 6CL8A except for heater ratings								
19DE7	20v .3a	Same as 6DE7 except for heater ratings								
19EA8	20v .15a	Same as 6EA8 except for heater ratings								
19EW7	20v .3a	Same as 6EW7 except for heater ratings								
19HR6	20v .15a	Same as 6HR6 except for heater ratings								
19HS6	20v .15a	Same as 6HS6 except for heater ratings								
19Q9	20v .15a	DGGG	13456	00002	00	1v	2300	4,5	Pentode	Gm*
		BGGG	00056	02140	00	1v	5500		Triode	Gm*
		BEBD(19)	13456	00002	00	5	-		Pentode	Em
		BEBD(10)	00056	02140	00	10	-		Triode	Em
21EX6	20v .6a	Same as 6EX6 except for heater ratings								
21GY5	20v .45a	Same as 6GY5 except for heater ratings								
21HD5	20v .6a	Same as 6HD5 except for heater ratings								
21HJ5	20v .6a	Same as 6HJ5 except for heater ratings								
21LU8	20v .45a	Same as 6LU8 except for heater ratings								
22BW3	20v .45a	EEBB(5)	50040	02004	06	-	-	1,4,10,12	Diode	Em
22DE4	20v .45a	Same as 6DE4 except for heater ratings								
22JF6	20v .45a	Same as 6JF6 except for heater ratings								
22JU6	20v .43a	CGGG	31265	13204	00	26v	4700	1,2,4,5,6,		Gm
		BEBD(6)	31265	13204	00	-	-	7		Em*
23Z9	25v .45a	CGGG	50004	02130	06	15v	3300	1,6,12	Pentode	Gm*
		DGGG	54100	02000	06	1v	2300		Triode	Gm*
		DGGG	50000	02001	46	1v	3300		Triode	Gm*
		BEBD(8)	50004	02130	06	0	-		Pentode	Em
		BEBD(16)	54100	02000	06	5	-		Triode	Em
		BEBD(15)	50000	02001	46	5	-		Triode	Em
25DT5	25v .3a	Same as 6DT5 except for heater ratings								
27GB5* PL500	25v .3a	Same as 6GB5 except for heater ratings *Magnoval Base-Do not insert tube fully into socket.								
28HD5	25v .45a	Same as 6HD5 except for heater ratings								
29GK6	25v .15a	Same as 6GK6 except for heater ratings								
30AG11	25v .15a	Same as 6AG11 except for heater ratings								

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TYPE	FIL	A-E	F-J	K-O	P-Q	BIAS	GM	SHORT	NOTES	TEST
30CW5	25v .15a	Same as 6CW5 except for heater ratings								
30HD5	25v .45a	Same as 6HD5 except for heater ratings								
30HJ5	25v .45a	Same as 6HJ5 except for heater ratings								
31JS6	25v .45a	Same as 6JS6 except for heater ratings								
33GT7	35v .45a	BGGG	50004	00213	06	17v	4000	1,7,9,11,	Pentode	Gm
		BEBD(6.5)	50004	00213	06	-	-	12	Pentode	Em*
		FEBB(15)	54020	00000	06	-	-		Diode	Em
34CE3	35v .45a	Same as 6CE3 except for heater ratings								
35DZ8	35v .15a	Same as 6DZ8 except for heater ratings								
38HE7	35v .45a	Same as 12HE7 except for heater ratings								
50FK5	50v .1a	BGGG	21651	34000	00	2v	5800	2,3,4,5,	Pentode	Gm
		BEBD(9)	21651	34000	00	6	-	6	Pentode	Em*
60FX5	50v .1a	Same as 12FX5 except for heater ratings								
7199	6.3v .45a	BGGG	40065	00210	00	1.4v	2700	4,5	Triode	Gm*
		BGGG	04365	21000	00	1v	2700		Pentode	Gm
		BEBD(12)	40065	00210	00	12	-		Triode	Em
		BEBD(20)	04365	21000	00	10	-		Pentode	Em
7408	6.3v .45a	BGGG	05431	06200	00	1v	3400	2,7		Gm
		BEBD(12)	05431	06200	00	10	-			Em*
7543	6.3v .3a	BGGG	12654	32000	00	.8v	2500	3,4	Pentode	Gm*
		BEBD(18)	12654	32000	00	9	-		Pentode	Em
7586	6.3v .135a	BGGG	04010	00205	06	1v	8600	10,12		Gm*
		BEBD(33)	04010	00205	06	5	-			Em
7587	6.3v .135a	BGGG	03010	00245	06	1v	3100	10,12	Connect grid jack to tube plate	Gm*
		BEBD(10)	03010	00245	06	7	-			Em
7591	6.3v .8a	BGGG	05432	16300	00	2v	5100	2,4,7,8		Gm
		BEBD(10)	05432	16300	00	8	-			Em*
7868	6.3v .8a	BGGG	31265	13040	00	5.5v	2300	1,2,4,5,	Pentode	Gm
		BEBD(9)	31265	13040	00	10	-	6,7	Pentode	Em*
7895	6.3v .135a	BGGG	04010	00205	06	1v	9600	10,12		Gm*
		BEBD(7)	04010	00205	06	6	-			Em
8056	6.3v .135a	DEBA(38)	04010	00205	06	9	-			Em
8058	6.3v .135a	BEBD(21)	02020	00245	06			2,4,8,10, 12	Connect grid jack to tube plate	Em*
8113	6.3v .2a	BGGG	12564	32000	00	1.4v	3800	2,3,4,7	Tetrode	Gm*
		BEBD(10)	12564	32000	00	10	-		Tetrode	Em
8156	12.6v .3a	CGGG	52400	23001	06	5v	3200	1,2,3,4,	Pentode	Gm*
		BEBE(7)	52400	23001	06	3	-	5,6,7,8, 9,11,12		Em

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ADDITIONAL TUBE TEST DATA
FOR USE WITH PRECISE MODEL IIIA

TYPE	FIL	A - E	F - J	K - O	P - Q	BIAS	GM	SHORT	NOTE	TEST
1	6.3v .3 A	AEBB(4)	64250	00000	00	0	-	1,4		Em*
1A3	1.5v .15A	FEBB(20)	64200	45000	00	0	-	1,2,6,7	5 may short	Em*
1A4	2v .06A	EGAG-	64350	00010	00	2.5v	450	1,4	G Cap	Gm*
		BEBD(18)	"	"	00	18	-	"	" "	Em
1A5	1.5v .05A	EGGG-	06431	05000	00	10.1v	525	2,7		Gm
		BEBD(13)	"	"	00	23	-	"		Em*
1A6	2v .06A	EGAG-	64023	50010	00	3.9v	475	1,6	G Cap-Amp	Gm*
		EGGG-	62413	50000	00	13.9v	195	"	Osc.	Gm*
		EEBD(28)	64223	50010	00	15	-	"	G Cap-Amp	Em
		BEBD(46)	62412	50000	00	25	-	"	Osc.	Em
1AB5	1.1v .12A	EGGG-	64300	10500	00	0v	875	1,7,8		Gm*
		BEBD(11)	"	"	00	28	-	"		Em
1AC5	1.1v .04A	CGAG-	01065	04300	00	3.9v	475	4,5		Gm
		EEBB(17)	"	"	00	6	-	"		Em*
1AD4	1.1v .1A	BGAG-	43615	00000	00	1v	1275	3,5		Gm*
		EEBB(16)	"	"	00	6	-	"		Em
1AD5	1.1v .04A	BGAG-	01065	04300	00	1v	450	4,5		Gm*
		EEBB(32)	"	"	00	6	-	"		Em
1AE4	1.1v .1A	CGGG-	54305	16000	00	1.7v	970	1,5,7		Gm*
1AF4	1.5v .025A	CGGG-	54305	16000	00	2.2v	600	1,5,7		Gm*
1AF5	1.5v .025A	EGAG-	50034	16000	00	.6v	370	1,7	Pentode	Gm*
		EEBB(27)	"	"	00	8	-	"	"	Em
		FEBB(44)	50400	06000	00	-	-	"	Diode	Em*
1AG4	1.1v .04A	EGAG-	43516	00000	00	6v	650	3,5		Gm
		EEBB(13)	"	"	00	4	-	"		Em*
1AG5	1.1v .03A	CGAG-	43051	60000	00	5v	250	4,6	Pentode	Gm*
		EEBB(42)	"	"	00	6	-	"	"	Em
1AH4	1.1v .036A	EEBB(35)	43516	00000	00	5	-	3,5		Em*
1AJ5	1.5v .04A	EGAG-	43061	50000	00	3v	280	4,6	Pentode	Gm*
		EEBB(37)	"	"	00	6	-	"	Pentode	Em
		FEBB(18)	00460	50000	00	-	-	"	Diode	Em*
1AK4	1.1v .02A	CGAG-	43615	00000	00	1.7v	480	3,5		Gm*
		FEBB(26)	"	"	00	7	-	"		Em
1AK5	1.1v .02A	FEBB(44)	43051	60000	00	7	-	4,6	Pentode	Em*
		FEBB(22)	00451	60000	00	-	-	"	Diode	Em*
1B4	2v .06A	EGAG-	64350	00010	00	2.3v	500	1,4	G Cap	Gm*
		BEBD(30)	"	"	00	14	-	"	" "	Em
1B5	2v .06A	EGGG-	64001	50000	00	3.9v	375	1,6	Triode	Gm*
		BEBD(35)	"	"	00	9	-	"	"	Em
		FEBB(20)	60400	"	00	-	-	"	Diode #1	Em*
		"	60040	"	00	-	-	"	" #2	Em*
1B7	1.5v .1A	EGAG-	06432	25010	00	0v	600	2,7	G Cap-Amp	Gm*
		EGGG-	06231	45000	00	0v	575	"	" " Osc.	Gm*
1B8	1.5v .1A	BEBD(12)	06431	05000	00	24	-	2,7	Pentode	Em*
		AEBB(45)	06000	45010	00	15	-	"	G Cap-Triode	Em*
		FEBB(20)	"	05400	00	-	-	"	Diode	Em*
1C3	1.5v .05A	EGGG-	64010	45000	00	9v	500	1,2,6,7		Gm*
		EEBB(16)	64010	45000	00	9	-	1,2,6,7		Em
1C5	1.5v .1A	EGGG-	06431	05000	00	10.5v	1000	2,7		Gm
		BEBD(11)	"	"	00	17	-	"		Em*
1C6	2v .12A	EGAG-	64223	50010	00	2v	625	1,6	G Cap-Amp	Gm*
		"	62413	50000	00	4.8v	260	"	Osc.	Gm*
		EEBD(23)	64223	50010	00	12	-	"	G Cap-Amp	Em
		BEBD(44)	62412	50000	00	26	-	"	Osc.	Em

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TYPE	FIL	A - E	F - J	K - O	P - Q	BIAS	GM	SHORT	NOTE	TEST
1C7	2v	EGAG-	06432	25010	00	2.1v	650	2,7	G CAP-AMP.	GM*
	.12A	"	06231	45000	00	5.1v	275	"	OSC.	GM*
		EEBD(23)	06432	25010	00	12	-	"	G CAP-AMP.	EM
		BEBD(44)	06221	45000	00	26	-	"	OSC.	EM
1D3	1.1v	EEBB(9)	10065	00400	00	8	-	4,5		EM*
	.28A									
1D5	2v	EGAG-	06430	05010	00	0v	475	2,7		GM*
	.06A	BEBD(30)	"	"	00	13	-	"		EM
1D7	2v	EGAG-	06432	25010	00	4.1v	475	2,7	G CAP-AMP.	GM*
	.06A	EGGG-	06231	45000	00	14.1v	200	"	OSC.	GM*
		EEBD(32)	06432	25010	00	21	-	"	G CAP-AMP.	EM
		BEBD(44)	06221	45000	00	32	-	"	OSC.	EM
1D8	1.5v	EGGG-	06431	25000	00	13.1v	575	2,7	PENTODE	GM
	.1A	"	06231	45010	00	1.1v	350	"	G CAP-TRIODE	GM*
		BEBD(12)	06431	25000	00	23	-	"	PENTODE	EM*
		BEBD(37)	06222	45010	00	10	-	"	G CAP-TRIODE	EM
		FEBB(20)	06000	05400	00	-	-	"	DIODE	EM*
1DN5	1.5v	EGAG-	54300	16000	00	2v	400	1,7	PENTODE	GM*
	.05A	EEBD(23)	"	"	00	8	-	"	"	EM
		FEBB(36)	50040	06000	00	-	-	"	DIODE	EM*
1E3	1.1v	CGGG-	10056	00400	00	5v	2200	3,4,5		GM*
	.2A									
1E4	1.5v	EGGG-	06401	05000	00	0v	825	2,7		GM*
	.05A	BEBD(18)	"	"	00	9	-	2,7		EM
1E5	2v	EGAG-	06430	05010	00	1.5v	525	2,7	G CAP	GM*
	.06A	BEBD(30)	"	"	00	13	-	"	"	EM
1E7	2v	CGGG-	06221	45300	00	2.2v	925	2,7	PENTODE #1	GM
	.24A	"	06412	25300	00	2.2v	"	"	" #2	GM
		BEBD(9)	06221	45300	00	28	-	"	" #1	EM*
		"	06412	25300	00	28	-	"	" #2	EM*
1E8	1.1v	DEBB(35)	02056	43100	00	5	-	4,5	AMP.	EM*
	.036A	EEBB(15)	01056	24200	00	8	-	"	OSC.	EM*
1F4	2v	EGGG-	64135	00000	00	2.5v	900	1,5		GM
	.12A	BEBD(11)	"	"	00	25	-	"		EM*
1F5	2v	EGGG-	06431	05000	00	1.2v	890	2,7		GM
	.12A	BEBD(11)	"	"	00	25	-	"		EM*
1F6	2v	EGAG-	64300	50010	00	.6v	425	1,6	G CAP-PENTODE	GM*
	.06A	BEBD(24)	"	"	00	22	-	"	" " "	EM
		FEBB(20)	60040	50000	00	-	-	"	DIODE #1	EM*
		"	60004	"	00	-	-	"	" #2	EM*
1F7	2v	EGAG-	06400	35010	00	.6v	425	2,7	G CAP-PENTODE	GM*
	.06A	BEBD(24)	"	"	00	22	-	"	" " "	EM
		FEBB(20)	06040	05000	00	-	-	"	DIODE #1	EM*
		"	06004	"	00	-	-	"	" #2	EM*
1G3	1.1v	GEBE(27)	06000	05004	00	-	-	2,7	P. CAP	EM*
	.2A	THIS IS A LOW VOLTAGE TEST AND IS NOT A TRUE INDICATION.								
1G4	1.5v	EGGG-	06401	05000	00	14.4v	525	2,7		GM*
	.05A	AEBB(22)	"	"	00	14	-	"		EM
1G5	2v	EGGG-	06431	05000	00	6.1v	975	2,7		GM
	.12A	BEBD(11)	"	"	00	18	-	"		EM*
1G6	1.5v	EGGG-	06001	45000	00	2v	425	2,7	TRIODE #1	GM
	.1A	"	06410	05000	00	2v	"	"	" #2	GM
		BEBD(13)	06001	45000	00	22	-	"	" #1	EM*
		"	06410	05000	00	"	-	"	" #2	EM*
1H2	1.5v	AEBB(49)	56000	00004	00	0	-	ALL BUT 3,7,10	F. CAP	EM*
		.55A								
1H4	2v	EGGG-	06401	05000	00	9v	575	2,7		GM*
	.06A	BEBD(14)	"	"	00	13	-	"		EM
1H5	1.5v	EGGG-	06400	05010	00	2v	175	2,7	G CAP-TRIODE	GM
	.05A	EEBB(45)	06400	05010	00	8	-	"	" " "	EM*
		FEBB(20)	06004	05000	00	-	-	"	DIODE	EM*

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TYPE	FIL	A - E	F - J	K - O	P - Q	BIAS	GM	SHORT	NOTE	TEST
1H6	2v	EGGG-	06400	15000	00	3.9v	375	2,7	TRIODE	GM*
	.06A	BEBD(37)	"	"	00	7	-	2,7	"	EM
		FEBB(29)	06040	05000	00	-	-	"	DIODE #1	EM*
		"	06004	"	00	-	-	"	" #2	EM*
1J5	2v	EGGG-	06431	05000	00	9v	625	2,7		GM
	.12A	BEBD(9)	"	"	00	30	-	"		EM*
1J6	2v	EGGG-	06001	45000	00	1.8v	650	2,7	TRIODE #1	GM
	.24A	"	06410	05000	00	"	"	"	" #2	GM
		BEBD(17)	06001	45000	00	12	-	"	" #1	EM*
		"	06410	05000	00	"	-	"	" #2	EM*
1LA4	1.5v	EGGG-	64300	10500	00	10.1v	525	1,8		GM
	.05A	BEBD(13)	"	"	00	25	-	"		EM*
1LA6	1.5v	EGAG-	64223	10500	00	0v	625	1,8	PENTODE	GM*
	.05A	"	62413	20500	00	1.9v	355	"	OSC.	GM*
		EEBD(24)	64223	10500	00	15	-	"	PENTODE	EM
		BEBD(44)	62412	20500	00	21	-	"	OSC.	EM
1LB4	1.5v	EGGG-	64300	10500	00	13.3v	580	1,8		GM
	.05A	BEBD(17)	"	"	00	15	-	"		EM*
1LC5	1.5v	EGAG-	64320	10500	00	0v	480	1,5,8		GM*
	.05A	BEBD(37)	"	"	00	11	-	"		EM
1LC6	1.5v	EGAG-	64223	10500	00	1.1v	625	1,8	PENTODE	GM*
	.05A	"	62413	20500	00	4.9v	360	"	OSC.	GM*
		EEBD(19)	64223	10500	00	18	-	"	PENTODE	EM
		BEBD(37)	62412	20500	00	21	-	"	OSC.	EM
1LD5	1.5v	EGAG-	64300	10500	00	0v	480	1,8	PENTODE	GM*
	.05A	BEBD(25)	"	"	00	17	-	"	PENTODE	EM
		FEBB(20)	62240	20500	00	-	-	"	DIODE	EM*
1LE3	1.5v	EGGG-	64000	10500	00	0v	825	1,8		GM*
	.05A	BEBD(18)	"	"	00	9	-	"		EM
1LF3	1.5v	EGGG-	64002	10500	00	4.2v	775	1,8		GM*
	.05A	BEBD(18)	"	"	00	9	-	"		EM
1LG5	1.5v	EGGG-	64320	10500	00	0v	650	1,5,8		GM*
	.05A	BEBD(30)	"	"	00	13	-	"		EM
1LH4	1.5v	EGGG-	64000	10500	00	2v	180	1,8	TRIODE	GM*
	.05A	EEBB(45)	"	"	00	8	-	"	"	EM
		FEBB(20)	62040	20500	00	-	-	"	DIODE	EM*
1LN5	1.5v	EGGG-	64320	10500	00	1.1v	475	1,5,8		GM*
	.05A	BEBD(30)	"	"	00	15	-	"		EM
1N6	1.5v	EGGG-	06431	05000	00	11.7v	525	2,7	PENTODE	GM
	.05A	BEBD(15)	"	"	00	21	-	"	"	EM*
		FEBB(33)	06222	45000	00	-	-	"	DIODE	EM*
1P5	1.5v	CGGG-	06430	05010	00	3.9v	525	2,7	G CAP	GM
	.05A	BEBD(40)	06430	"	00	13	-	"	" "	EM*
1Q6	1.1v	CGAG-	01065	04300	00	1.9v	325	4,5	PENTODE	GM*
	.04A	EEBB(24)	01065	04300	00	10	-	"	"	EM
		FEBB(20)	00065	40000	00	-	-	"	DIODE	EM*
1R4	1.5v	FEBB(17)	50040	02600	00	-	-	1,8		EM*
	.15A									
1S6	1.1v	BGAG-	40165	00300	00	1v	375	5,6	PENTODE	GM*
	.04A									
1SA6	1.5v	EGAG-	06210	35400	00	0v	525	2,7		GM*
	.05A	BEBD(18)	"	"	00	22	-	"		EM
1SB6	1.5v	EGAG-	06430	05100	00	.1v	420	2,7	PENTODE	GM*
	.05A	EEBD(29)	"	"	00	5	-	2,7	"	EM
		FEBB(26)	06004	05000	00	-	-	"	DIODE	EM*
1T6	1.1v	BGAG-	40165	20300	00	1v	375	4,5	PENTODE	GM*
	.04A	EEBB(38)	"	"	00	6	-	"	"	EM
		FEBB(21)	00065	40000	00	-	-	"	DIODE	EM*

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TYPE	FIL	A - E	F - J	K - O	P - Q	BIAS	GM	SHORT	NOTE	TEST
1U4	1.5v	EGGG-	54305	16000	00	1.7v	575	1,5,7		Gm*
	.05A	BEBD(26)	"	"	00	16	-	"		Em
1U6	1.5v	EGAG-	54323	16000	00	2.5v	350	1,7	Amp	Gm*
	.025A	EGGG-	53413	26000	00	0v	200	"	Osc	Gm*
		EEBD(23)	54323	16000	00	6	-	"	Amp	Em
		AEBC(50)	53413	26000	00	10	-	"	Osc	Em
1V	6.3v	AEBB(4)	64250	00000	00	0	-	1,4		Em*
	.3A									
1V5	1.1v	CGAG-	01065	04300	00	5.4v	475	4,5		Gm
	.04A	EEBB(13)	"	"	00	10	-	"		Em*
1V6	1.1v	FEBD(36)	00061	45000	00	6	-	4,7	Triode	Em*
	.036A	FEBD(32)	43160	05000	00	6	-	"	Pentode	Em*
1W4	1.5v	EGGG-	54300	16000	00	13v	600	1,7		Gm
	.05A	BEBD(17)	"	"	00	15	-	"		Em*
1W5	1.1v	BGAG-	01065	04300	00	1v	475	4,5		Gm*
	.04A	EEBB(18)	"	"	00	9	-	"		Em
2A4	2.5v	AEBB(4)	06401	05000	00	0	-	2,7		Em*
	2.5A									
2A5	2.5v	CGGG-	64312	50000	00	1.8v	1650	1,6		Gm
	1.75A	BEBD(9)	"	"	00	27	-	"		Em*
2A6	2.5v	BGGG-	64002	50010	00	1.1v	725	1,6	G Cap-Triode	Gm*
	.8A	BEBD(37)	"	"	00	8	-	"	" " "	Em
		FEBB(20)	60402	50000	00	-	-	"	Diode#1	Em*
		"	60042	"	00	-	-	"	" #2	Em*
2A7	2.5v	BGAG-	64302	25010	00	1v	1025	1,7	G Cap-Amp	Gm*
	.8A	EGAG-	62341	25000	00	2.9v	325	"	Osc.	Gm*
		EEBD(15)	64302	25010	00	35	-	"	G Cap-Amp.	Em
		BEBD(25)	62241	25000	00	18	-	"	Osc.	Em
2B3	1.5v	GEBE(12)	05000	06004	00	-	-	1,2,7	P Cap	Em*
	.25A	This is a low voltage test and is not a true indication.								
2B4	2.5v	AEBB(3)	64225	00000	00	0	-	1,5	Thyratron	Em*
	1.4A									
2B6	2.5v	EGGG-	64310	25000	00	7v	1000	1,7		Gm*
	2.25A	BEBD(20)	60412	05000	00	15	-	"	IN	Em
		BEBD(7)	64001	25000	00	26	-	"	OUT	Em
2B7	2.5v	EGGG-	64300	25010	00	5.5v	650	1,7	G Cap-Pentode	Gm*
	.8A	BEBD(19)	"	"	00	17	-	"	" " "	Em
		FEBB(20)	60004	25000	00	-	-	"	Diode #1	Em*
		"	60040	25000	00	-	-	"	Diode #2	Em*
2E5	2.5v	EGGG-	64132	50000	00	1.3v	700	1,6	Eye Closed	Gm*
	.8A	"	60132	"	00	1.3v	-	"	Eye Open	*
2G5	2.5v	EGGG -	64132	50000	00	1.3v	700	1,6	Eye Closed	Gm*
	.8A	"	60132	50000	00	1.3v	-	1,6	Eye Open	*
5A6	5v	DGGG-	40265	31000	00	12v	1900	3,4,5,8 9		Gm
	.23A	BEBD(9)	"	"	00	12	-	"		Em*
5X4	5v	AEBB(6)	00400	05600	00	-	-	7,8	Plate #1	Em*
	3A	AEBB(6)	00004	"	00	-	-	"	" #2	Em*
5Y4	5v	AEBB(7)	00400	05600	00	-	-	7,8	Plate #1	Em*
	2A	"	00004	05600	00	-	-	"	" #2	Em*
5Z4	5v	AEBB(3)	06040	00500	00	-	-	2,8	Plate #1	Em*
	2A	AEBB(3)	06000	40500	00	-	-	2,8	" #2	Em*
6A3	6.3v	DGGG-	64150	00000	00	25v	1800	1,4		Gm
	.1A	BGGD(5)	64150	00000	00	34	-	"		Em*
6A4	6.3v	EGGG-	64135	00000	00	5v	1200	1,5		Gm
	.3A	BEBD(9)	"	00000	00	21	-	1,5		Em*
6A5	6.3v	DGGG-	06401	05000	00	25.9v	1900	2,7,8		Gm
	1.25A	BEBD(5)	"	"	00	35	-	"		Em*

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TYPE	FIL	A - E	F - J	K - O	P - Q	BIAS	GM	SHORT	NOTE	TEST
6A6	6.3v .8A	CGGG-	60021	45000	00	2.2v	975	1,7	TRIODE #1	Gm
		"	64120	05000	00	"	"	"	" #2	Gm
		BEBD(7)	60021	45000	00	29	-	"	" #1	Em*
		"	64120	05000	00	"	-	"	" #2	Em*
6AC5	6.3v .4A	EGGG-	06401	05200	00	0v	640	2,7		Gm
		BEBD(7)	"	"	00	30	-	"		Em*
6AK4	6.3v .15A	CGGG-	10502	62400	00	5v	2400	3,6		Gm*
		AEBB(14)	"	"	00	8	-	"		Em
6AN5	6.3v .45A	BGAG-	12654	32000	00	.5v	5000	2,3,4,7		Gm
		BEBD(7)	"	"	00	9	-	"		Em*
6AN6	6.3v .2A	FEBB(20)	60004	25000	00	-	-	1,7	DIODE 1	Em*
		"	60040	"	00	-	-	"	" 2	Em*
		"	60400	"	00	-	-	"	" 3	Em*
		"	64000	"	00	-	-	"	" 4	Em*
6B5	6.3v .8A	CGGG-	64312	50000	00	1.6v	925	1,6		Gm
		BEBD(12)	62412	50000	00	35	-	"	INPUT	Em*
		BEBD(8)	64312	"	00	32	-	"	OUTPUT	Em*
6B7	6.3v .3A	EGGG-	64300	25010	00	5.5v	650	1,7	G CAP-PENTODE	Gm*
		BEBD(19)	"	"	00	20	-	1,7	" " "	Em
		FEBB(20)	60004	25000	00	-	-	"	DIODE #1	Em*
		"	60040	"	00	-	-	"	" #2	Em*
6BE7	6.3v .2A	EGGG-	40256	31020	00	5v	650	3,4,5,8		Gm*
6BE8	6,3v .45A	BGGG-	00256	43210	00	.8v	2400	4,5	PENTODE	Gm*
		"	14256	00000	00	1.1v	4000	"	TRIODE	Gm*
		EEBD(5)	00256	43210	00	5	-	"	PENTODE	Em
		EEBB(9)	14256	00000	00	9	-	"	TRIODE	Em
6C6	6.3v .3A	EGGG-	64322	50010	00	3.2v	775	1,6		Gm*
		BEBD(15)	"	"	00	18	-	"		Em
6C7	6.3v .3A	EGGG-	64000	25010	00	6.8v	790	1,7	G CAP-TRIODE	Gm*
		BEBD(12)	"	"	00	15	-	"	" " "	Em
		FEBB(20)	60040	25000	00	-	-	"	DIODE #1	Em*
		"	60004	"	00	-	-	"	DIODE #2	Em*
6D6	6.3v .3A	EGGG-	64322	50010	00	3.2v	1025	1,6	G CAP	Gm*
		BEBD(15)	"	"	00	17	-	"	" "	Em
6D7	6.3v .3A	EGGG-	64320	25010	00	3.9v	775	1,7	G CAP	Gm*
		BEBD(15)	"	"	00	18	-	"	" "	Em
6E6	6.3v .6A	EGGG-	60021	45000	00	13.4v	890	1,7	TRIODE #1	Gm
		"	64120	05000	00	"	"	"	" #2	Gm
		BEBD(8)	60021	45000	00	21	-	"	" #1	Em*
		"	64120	05000	00	21	-	"	" #2	Em*
6E7	6.3v .3A	EGGG-	64320	25010	00	3.9v	975	1,7	G CAP	Gm*
		BEBD(14)	64320	"	00	19	-	1,7	" "	Em
6F7	6.3v .3A	EGGG-	64302	25010	00	4.9v	725	1,7	G CAP-PENTODE	Gm*
		"	60341	25000	00	4.9v	325	"	TRIODE	Gm*
		BEBD(20)	64302	25010	00	18	-	"	G CAP-PENTODE	Em
		BEBD(12)	60041	25000	00	36	-	"	TRIODE	Em
6F8	6.3v .6A	EGGG-	06001	45200	00	4.7v	1275	2,7	TRIODE #1	Gm*
		"	06420	05010	00	"	"	"	G CAP-TRIODE #2	Gm*
		BEBD(13)	06001	45200	00	10	-	"	TRIODE #1	Em
		"	06420	05010	00	"	-	"	G CAP-TRIODE #2	Em
6G6	6.3v .15A	CGGG-	06431	05200	00	5.5v	1420	2,7		Gm
		BEBD(9)	"	"	00	24	-	"		Em*
6L4	6.3v .225A	BGGG-	64452	01100	00	4.9v	4025	1,2,3,4,7,8		Gm*
6N7	6.3v .8A	CGGG-	06201	45200	00	2.9v	975	2,7	TRIODE #1	Gm
		CGGG-	06410	25200	00	2.9v	"	"	" #2	Gm
		BEBD(7)	06201	45200	00	29	-	"	" #1	Em*
		"	06410	25200	00	29	-	"	" #2	Em*
6P5	6.3v .3A	EGGG-	06401	05200	00	6.1v	925	2,7		Gm*
		BEBD(13)	"	"	00	10	-	"		Em

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TYPE	FIL	A - E	F - J	K - O	P - Q	BIAS	GM	SHORT	NOTE	TEST
6P7	6.3v	EGGG-	05643	20210	00	4.9v	700	2,3	G CAP-PENTODE	GM*
	.3A	"	05620	41200	00	"	325	2,3	TRIODE	GM*
		BEBD(20)	05643	20210	00	18	-	"	G CAP-PENTODE	EM
		BEBD(12)	05620	41200	00	36	-	"	TRIODE	EM
6Q5	6.3v	BEBD(5)	06401	05200	00	0	-	2,7	THYRATRON	EM*
	.6A									
6R4	6.3v	DGGG-	10256	00400	00	6v	2200	4,5		GM*
	.2A									
6V5	6.3v	DGGG-	00431	05600	00	10v	2625	7,8		GM*
	.45A									
10	7.5v	EGGG-	64150	00000	00	12v	750	1,4		GM
	1.25A	BEBD(9)	"	"	00	24	-	"		EM*
12A	5v	EGGG-	64150	00000	00	15v	1000	1,4		GM*
	.25A	BEBD(9)	"	"	00	14	-	"		EM
12A4	12.6v	BGGG-	21056	00040	00	4.5v	5000	2,3,4,5,7		GM*
	.3A	BEBD(6)	"	"	00	15	-	"		EM
12A6	12.6v	CGGG-	26431	05200	00	5.9v	1925	2,7		GM
	.15A	BEBD(10)	"	"	00	22	-	2,7		EM*
12A7	12.6v	EGGG-	64302	25010	00	12.1v	625	1,7	G CAP-PENTODE	GM
	.3A	BEBD(10)	"	"	00	27	-	"	" " "	EM*
		AEBB(4)	60024	05000	00	-	-	"	DIODE	EM*
12A8	12.6v	BGAG-	06432	05210	00	1v	1000	2,7	G CAP-AMP	GM*
	.15A	EGAG-	06231	45200	00	2.9v	325	"	OSC.	GM*
		EEBD(18)	06432	05210	00	20	-	"	G CAP-AMP	EM
		BEBD(21)	06221	45200	00	25	-	"	OSC.	EM
12B8	12.6v	CGGG-	26430	05010	00	3.6v	1150	2,7	G CAP-PENTODE	GM*
	.3A	BGGG-	06004	25100	00	.8v	1250	"	TRIODE	GM*
		BEBD(10)	26430	05010	00	20	-		G CAP-PENTODE	EM
		BEBD(18)	06004	25100	00	9	-	"	TRIODE	EM
12CY6	12.6v	AEBB(9)	12654	32000	00	10	-	3,4		EM*
	1.5A									
12Z3	12.6v	AEBB(1)	64250	00000	00	0	-	1,4		EM*
	.3A									
12Z5	12.6v	AEBB(4)	60202	45000	00	0	-	1,4,7	PLATE #1	EM*
	.3A	"	64202	05000	00	0	-	"	" #2	EM*
14Z3	12.6v	AEBB(1)	64250	00000	00	0	-	1,4		EM*
	.3A									
15	2v	EGAG-	64325	00010	00	0v	450	1,5	G CAP	GM*
	.22A	BEBD(33)	"	"	00	14	-	"	" "	EM
15A6	12.6v	BGGG-	31265	24000	00	1v	6200	4,5		GM*
	.25A									
17	2.5v	BEBD(9)	60150	00004	00	17	-	1,5		EM*
	5A									
18	12.6v	BEBD(9)	64312	50000	00	28	-	1,6		EM*
	.27A									
19	2v	EGGG-	60014	50000	00	4.8v	625	1,6	TRIODE #1	GM
	.26A	EGGG	64100	50000	00	4.8v	625	1,6	TRIODE #2	GM
		BEBD(17)	60014	"	00	12	-	"	TRIODE #1	EM*
		"	64100	"	00	"	-	"	TRIODE #2	EM*
20	2v	BEBD(11)	64150	00000	00	20	-	1,4		EM*
	.13A									
22	3v	EGAG-	64350	00010	00	3.8v	300	1,4	G CAP	GM*
	.132A	BEBD(18)	"	"	00	25	-	"	" "	EM
24A	2.5v	BGGG-	64325	00010	00	1v	600	1,5	G CAP	GM*
	1.75A	BEBD(18)	"	"	00	15	-	"	" "	EM
25A6	25v	CGGG-	06431	05200	00	11.3v	1475	2,7		GM
	.3A	BEDD(7)	"	"	00	22	-	"		EM*

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TYPE	FIL	A - E	F - J	K - O	P - Q	BIAS	GM	SHORT	NOTE	TEST
25A7	25v	CGGG-	06431	25200	00	12.9v	1150	2,7	PENTODE	GM
	.3A	BEBD(8)	"	"	00	18	-	"	"	EM*
		AEBB(2)	26000	45000	00	-	-	"	DIODE	EM*
25B5	25v	CGGG-	64312	50000	00	3.6v	1575	1,6		GM
	.3A	BEBD(8)	62412	50000	00	29	-	"	INPUT	EM*
		BEBD(6)	64312	50000	00	27	-	"	OUTPUT	EM*
25B6	25v	DGGG-	06431	05200	00	16.9v	2525	2,7		GM
	.3A	BEBD(5)	06431	05200	00	9	-	"		FM*
25B8	25v	EGGG-	26430	05010	00	3.4v	1275	2,7	G CAP-PENTODE	GM*
	.15A	"	06004	25100	00	.9v	975	"	TRIODE	GM*
26	1.5v	EGGG-	64150	00000	00	10v	730	1,4		GM*
	1.05A	BEBD(14)	"	"	00	12	-	"		EM
27	2.5v	CGGG-	64125	00000	00	10v	650	1,5		GM*
	1.75A	BEBD(13)	"	"	00	11	-	"		EM
30	2v	EGGG-	64150	00000	00	10v	575	1,4		GM*
	.06A	BEBD(17)	"	"	00	11	-	"		EM
31	2v	EGGG-	64150	00000	00	11v	600	1,4		GM
	.13A	BEBD(8)	"	00000	00	22	-	"		EM*
32	2v	EGAG-	64350	00010	00	3v	400	1,4	G CAP	GM*
	.96A	BEBD(30)	"	"	00	12	-	"	" "	EM
32L7	35v	CGGG-	06431	05200	00	9.9v	3000	2,7	PENTODE	GM
	.3A	BEBD(7)	"	"	00	10	-	"	"	EM*
		AEBB(2)	26000	45200	00	-	-	"	DIODE	EM*
33	2v	EGGG-	64135	00000	00	7v	900	1,5		GM
	.26A	BEBD(9)	"	"	00	23	-	"		EM*
34	2v	EGAG-	64350	00010	00	2v	380	1,4	G CAP	GM*
	.96A	BEBD(17)	"	"	00	26	-	"	" "	EM
35/51	2.5v	EGGG-	64325	00010	00	4v	650	1,5	G CAP	GM*
	1.75A	BEBD(4)	"	"	00	27	-	"	G CAP	EM
36	6.3v	CGGG-	64325	00010	00	4v	650	1,5	G CAP	GM*
	.3A	BEBD(15)	"	"	00	21	-	1,5	" "	EM
37	6.3v	EGGG-	64125	00000	00	10v	550	1,5		GM*
	.3A	BEBD(9)	"	"	00	17	-	1,5		EM
38	6.3v	EGGG-	64325	00010	00	8v	650	1,5	G CAP	GM
	.3A	BEBD(10)	"	"	00	32	-	1,5	" "	EM*
39/44	6.3v	EGGG-	64325	00010	00	5v	600	1,5	G CAP	GM*
	.3A	BEBD(13)	"	"	00	27	-	"	" "	EM
40	5v	EGGG-	64150	00000	00	6v	130	1,4		GM*
	.25A	BEBD(38)	"	"	00	9	-	1,4		EM
46	2.5v	EGGG-	64135	00000	00	6v	1100	1,5		GM
	1.75A	BEBD(7)	"	"	00	22	-	"		EM*
47	2.5v	EGGG-	64135	00000	00	3.5v	1300	1,5		GM
	1.75A	BEBD(4)	"	"	00	30	-	"		EM*
48	25v	CGGG-	64312	50000	00	24.5v	1275	1,6		GM
	.3A	BEBD(5)	"	"	00	18	-	1,6		EM*
49	2v	EGGG-	64135	00000	00	12v	720	1,5		GM
	.12A	BEBD(10)	"	"	00	21	-	1,5		EM*

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